

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/509,377	08/28/2000	Sergey Matasov		9553

United States Patent and Trademark Office
Commissioner for Patents
Art Unit 3739
Examiner Mr. Leubecker, John P.
P.O. Box 1450, Alexandria VA 22313-1450
United States of America

EXAMINER LEUBECKER, JOHN P	
ART UNIT	PAPER NUMBER

3739

DATE MAILED: September 3, 2003

REMARKS / ARGUMENTS

Claims 1-20 have been amended.

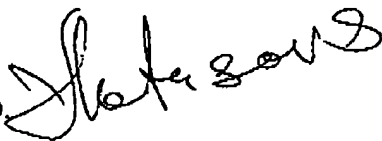
Examiner has acknowledged that claims 1-20 have now been amended to clear up all Examiners' objections.

Attached hereto is a marked-up version of the changes made to the specification, claims and drawings by the current amendment. The attached page is captioned "Version with markings to show changes made".

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Faithfully Yours,

Sergey Matasov, M.D.



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the specification:

1. Paragraph, beginning at page 3, line 12 with has been amended as follows:

A compact hollow cylinder of the invaginator can be formed of tightly compressed in longitudinal and transverse directions pleats of different forms of an eversible thin-walled tube placed at any angles with the longitudinal axis of an endoscopic tube. The cylinder has recurrent narrowings of an external diameter and widenings of its internal diameter. The stability of diameters depends on the compactness of the cylinder. In one of the embodiments the definite compactness of cylinder ensures the gap with endoscopic tube during their joining and in the process of invagination, in the other – only during the joining. There are possible also the interim variants of embodiments.

In the claims:

Claims 1-20 have been amended by claims 1-20 as follows:

- ~~1. An endoscope, comprising an invaginator of a thin-walled tube, which is compactly placed on the distal part of an endoscopic tube in the shape of small layers and/or pleats.~~
- ~~2. The endoscope according to claim 1, wherein the said invaginator is formed in a hollow cylinder having a gap with the distal part of the endoscopic tube.~~
- ~~3. The endoscope according to claim 2, wherein said gap is keeping under the working pressure in a cavity of invaginator.~~
- ~~4. The endoscope according to any of claims 1 to 3, further comprising a distal seal of the endoscopic tube.~~
- ~~5. The endoscope according to any of claims 1 to 3, further comprising a shell of invaginator for insertion in rectum.~~
- ~~6. The endoscope according to any of claims 1 to 3, further comprising a preservative of the distal part of endoscopic tube.~~
- ~~7. An endoscope, comprising a disposable cartridge for the invagination of endoscopic tube, which has:~~

Application/Control Number: 09/509,377
 Art Unit: 3739

Page 2

- ~~an invaginator of a thin-walled tube, formed in the shape of small layers and/or pleats in a hollow cylinder having a gap with the distal part of endoscopic tube,~~
 - ~~a distal seal of endoscopic tube,~~
 - ~~a shell of invaginator for insertion in rectum,~~
 - ~~a preservative of the distal part of endoscopic tube.~~
8. ~~The endoscope according to claim 7, wherein said invaginator keeps said gap under the working pressure in the cavity of invaginator.~~
 9. ~~The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a proximal seal of the endoscopic tube.~~
 10. ~~The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a spring of invaginator.~~
 11. ~~The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a tip of the endoscopic tube.~~
 12. ~~The endoscope according to claim 11, wherein said tip comprises a protective glass.~~
 13. ~~The endoscope according to claim 12, wherein said tip comprises a channel in the cavity of intestines.~~
 14. ~~The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising an anal dilator.~~
 15. ~~The endoscope according to claim 14, wherein said anal dilator comprises a channel in the cavity of intestines.~~
 16. ~~The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising an endoscopic tube with a distal drives of traction lines, bending its distal end, made in the shape of cylinder/piston units.~~
 17. ~~The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising an endoscopic tube with a distal drives of traction lines, bending its distal end, made in the shape of siphon.~~
 18. ~~The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a biopsy forceps in the shape of a flexible hermetic tube, on the distal end of said tube a piston of biopsy channel is placed.~~
 19. ~~The endoscope according to claim 18, further comprising a distal drive of cutters.~~
 20. ~~An endoscope comprising a mechanism for insertion of endoscopic tube in the shape of cylinder/piston unit.~~

I claim:

1. An endoscope, comprising an invaginator, which is a thin-walled tube, compactly placed on the distal part of an endoscopic tube in the shape of small layers and/or pleats.
2. The endoscope according to claim 1, wherein said invaginator is formed in the shape of a compact hollow cylinder, which has a gap with the distal part of the endoscopic tube.
3. The endoscope according to claim 2, wherein said cylinder has a compactness, which ensures said gap in the process of invagination of the endoscopic tube. (3)
4. The endoscope according to any of claims 1 to 3, further comprising a seal between the endoscopic tube and the unverted end of said invaginator. (3)
5. The endoscope according to any of claims 1 to 3, further comprising a shell of said invaginator, commensurate to the diameter of said invaginator and to the length of rectum. (3)
6. The endoscope according to any of claims 1 to 3, further comprising a preservative of the distal part of the endoscopic tube. (3)

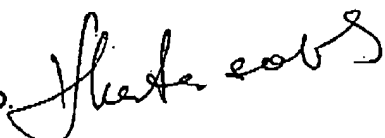
Application/Control Number: 09/509,377
 Art Unit: 3739

Page 3

7. An endoscope, comprising a disposable cartridge for the invagination of an endoscopic tube, which has:
 - an invaginator which is a thin-walled tube, formed by small layers and/or pleats in the shape of a compact hollow cylinder, which has a gap with the distal part of the endoscopic tube,
 - a seal between the endoscopic tube and the unevverted end of said invaginator,
 - a shell of said invaginator, commensurate to the diameter of said invaginator and to the length of rectum,
 - a preservative of the distal part of the endoscopic tube,
8. The endoscope according to claim 7, wherein said cylinder has a compactness, which ensures said gap in the process of invagination of the endoscopic tube,
9. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a seal of the endoscopic tube, which hermetizes a cavity of the everted part of said invaginator,
10. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a spring of said invaginator,
11. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a removable tip of the endoscopic tube,
12. The endoscope according to claim 11, wherein said tip further comprises a protective glass,
13. The endoscope according to claim 12, wherein a cavity of said tip communicates with a cavity of intestines,
14. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising an anal dilator,
15. The endoscope according to any of claims 1, 2, 3, 7, 8, wherein the endoscopic tube further comprises a distal drives of traction lines, bending its distal end, which are cylinder-piston units, connected to the pressure of gas or liquid,
16. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a biopsy forceps, which are a flexible hermetic tube, on the distal end of said tube is placed a piston of a biopsy channel,
17. The endoscope according to claim 16, further comprising a distal drive of traction line of a cutters of said biopsy forceps,
18. An endoscope comprising a mechanism for introduction of an endoscopic tube, which is a cylinder-piston unit, connected to the pressure of gas or liquid,

Faithfully Yours,

Sergey Matasov, M.D.



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